

WHAT IS CLAIMED IS:

1                    1.     A thermostent for insertion into the lumen, having a mesh  
2     tubular form made of a heat-treated, magnetic material, which can generate heat  
3     by itself in response to the application of an external magnetic field thereto.

1                    2.     The thermostent as set forth in claim 1, wherein the material  
2     is selected from the group consisting of duplex stainless steel, nickel-copper alloy,  
3     iron-nickel alloy, palladium-cobalt alloy, and palladium-nickel alloy.

1                    3.     The thermostent as set forth in claim 1, wherein the material  
2     is thermally treated at 200-1,500 °C.

1                    4.     The thermostent as set forth in claim 1, wherein the stent has  
2     a maximal heating temperature of 30-200°C.

1                    5.     The thermostent as set forth in claim 1, wherein the heat-  
2     treated magnetic material is wound on a peripheral surface of a shape memory  
3     alloy in a mesh form.

1                    6.     A thermocoil for insertion into the lumen, having a spiral  
2     form made of thermally treated, magnetic wire material, which functions to  
3     generate heat by itself in response to the application of an external magnetic field  
4     thereto and to block blood flow when being inserted into blood vessels.

1                    7.     The thermocoil as set forth in claim 6, wherein the material  
2     is selected from the group consisting of duplex stainless steel, nickel-copper alloy,  
3     iron-nickel alloy, palladium-cobalt alloy, and palladium-nickel alloy.

1                    8.     The thermocoil as set forth in claim 6, wherein the material  
2     is thermally treated at 200-1,500°C.

1                    9.     The thermocoil as set forth in claim 6, wherein the thermo-  
2 coil has a maximal heating temperature of 30-200°C.

1                    10.    The thermocoil as set forth in claim 6, wherein the heat-  
2 treated magnetic material has pili bonded thereto.

1                    11.    A thermoguide wire for insertion into the lumen, having a  
2 coil form made of thermally treated, magnetic wire material, which generates heat  
3 by itself in response to the application of an external magnetic field thereto.

1                    12.    The thermoguide wire as set forth in claim 11, wherein the  
2 material is selected from the group consisting of duplex stainless steel, nickel-  
3 copper alloy, iron-nickel alloy, palladium-cobalt alloy, and palladium-nickel alloy.

1                    13.    The thermoguide wire as set forth in claim 11, wherein the  
2 material is thermally treated at 200-1,500°C.

1                    14.    The thermoguide wire as set forth in claim 11, wherein the  
2 thermo-guide wire has a maximal heating temperature of 30-200°C.